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Kyle F. Gross Laboratory Director

Jose Rocha QA Officer

Lenora Sullivan Utah Division of Water Quality PO Box 144870 SLC, UT 84114

TEL: (801) 538-6329

RE: Gold King Mine - San Juan River Sampling

Dear Lenora Sullivan: Lab Set ID: 1508161

American West Analytical Laboratories received sample(s) on 8/10/2015 for the analyses presented in the following report.

American West Analytical Laboratories (AWAL) is accredited by The National Environmental Laboratory Accreditation Program (NELAP) in Utah and Texas; and is state accredited in Colorado, Idaho, New Mexico, Wyoming, and Missouri.

All analyses were performed in accordance to the NELAP protocols unless noted otherwise. Accreditation scope documents are available upon request. If you have any questions or concerns regarding this report please feel free to call.

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitation limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit. Analytical results are reported to three significant figures for quality control and calculation purposes.

This is a revision of a report originally issued 8/17/2015. Pages 1, 4, and 8 have been revised to correct collection times.

Thank You,	
Approved by:	Laboratory Director or designee



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Kyle F. Gross Laboratory Director

Jose Rocha QA Officer

INORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality Contact: Lenora Sullivan

Project: Gold King Mine - San Juan River Sampling

Lab Sample ID: 1508161-001

Client Sample ID: San Juan R @ Mexican Hat US163 Xing (4953000)

Collection Date: 8/8/2015 1454h **Received Date:** 8/10/2015 1302h

Analytical Results TOTAL METALS

Compound	CAS	Units	Date Prepared	Date Analyzed	Method Used	MDL	Reporting Limit	Analytical Result	Qual
Aluminum	7429-90-5	mg/kg-dry	8/11/2015 1151h	8/13/2015 1913h	SW6010C	23.7	138	8,780	B²
Antimony	7440-36-0	mg/kg-dry	8/11/2015 1151h	8/15/2015 1338h	SW6020A	0.401	4.42	< 4.42	U
Arsenic	7440-38-2	mg/kg-dry	8/11/2015 1151h	8/15/2015 1338h	SW6020A	0.0894	2.76	2.70	J
Barium	7440-39-3	mg/kg-dry	8/11/2015 1151h	8/15/2015 1338h	SW6020A	2.99	4.97	271	2
Beryllium	7440-41-7	mg/kg-dry	8/11/2015 1151h	8/15/2015 1338h	SW6020A	0.00657	2.21	0.423	J
Cadmium	7440-43-9	mg/kg-dry	8/11/2015 1151h	8/15/2015 1338h	SW6020A	0.0186	0.938	0.165	J
Calcium	7440-70-2	mg/kg-dry	8/11/2015 1151h	8/13/2015 1913h	SW6010C	32.7	1,380	6,980	B^2
Chromium	7440-47-3	mg/kg-dry	8/11/2015 1151h	8/15/2015 1338h	SW6020A	2.68	11.0	7.72	J
Cobalt	7440-48-4	mg/kg-dry	8/11/2015 1151h	8/15/2015 1338h	SW6020A	0.168	1.49	2.65	
Copper	7440-50-8	mg/kg-dry	8/11/2015 1151h	8/15/2015 1338h	SW6020A	1.69	17.1	5.01	J
Iron	7439-89-6	mg/kg-dry	8/11/2015 1151h	8/13/2015 1830h	SW6010C	1.57	6.90	7,630	B^2
Lead	7439-92-1	mg/kg-dry	8/11/2015 1151h	8/15/2015 1338h	SW6020A	3.31	7.18	5.52	J
Magnesium	7439-95-4	mg/kg-dry	8/11/2015 1151h	8/13/2015 1830h	SW6010C	14.5	138	2,190	В
Manganese	7439-96-5	mg/kg-dry	8/11/2015 1151h	8/15/2015 1338h	SW6020A	0.740	4.42	218	2
Mercury	7439-97-6	mg/kg-dry	8/12/2015 1138h	8/13/2015 1301h	SW7471B	0.00155	0.0460	< 0.0460	U
Molybdenum	7439-98-7	mg/kg-dry	8/11/2015 1151h	8/15/2015 1338h	SW6020A	0.393	22.1	0.430	J
Nickel	7440-02-0	mg/kg-dry	8/11/2015 1151h	8/15/2015 1338h	SW6020A	2.41	22.1	4.09	J
Potassium	7440-09-7	mg/kg-dry	8/11/2015 1151h	8/13/2015 1830h	SW6010C	28.0	138	2,280	
Selenium	7782-49-2	mg/kg-dry	8/11/2015 1151h	8/15/2015 1338h	SW6020A	0.602	9.38	< 9.38	U
Silver	7440-22-4	mg/kg-dry	8/11/2015 1151h	8/15/2015 1338h	SW6020A	0.0247	1.66	0.0679	J
Sodium	7440-23-5	mg/kg-dry	8/11/2015 1151h	8/13/2015 1830h	SW6010C	10.6	138	291	B1
Thallium	7440-28-0	mg/kg-dry	8/11/2015 1151h	8/15/2015 1338h	SW6020A	0.00558	4.42	0.130	J
Vanadium	7440-62-2	mg/kg-dry	8/11/2015 1151h	8/15/2015 1338h	SW6020A	0.569	11.0	18.9	
Zinc	7440-66-6	mg/kg-dry	8/11/2015 1151h	8/15/2015 1338h	SW6020A	5.58	55.2	26.1	J

² - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.

B - The method blank was acceptable, as the method blank result is less than 10% of the lowest reported sample concentration.

B1 - This analyte was also detected in the method blank below the PQL.

J - Estimated value between the MDL and the reporting limit (PQL).

U - This flag indicates the compound was analyzed for but not detected above the MDL.



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Kyle F. Gross Laboratory Director

Jose Rocha QA Officer

INORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality Contact: Lenora Sullivan

Project: Gold King Mine - San Juan River Sampling

Lab Sample ID: 1508161-002

Client Sample ID: San Juan R @ Sand Island (4953250)

Collection Date: 8/8/2015 1619h **Received Date:** 8/10/2015 1302h

Analytical Results TOTAL METALS

Compound	CAS	Units	Date Prepared	Date Analyzed	Method Used	MDL	Reporting Limit	Analytical Result	Qual
Aluminum	7429-90-5	mg/kg-dry	8/11/2015 1151h	8/13/2015 1851h	SW6010C	2.25	13.1	7,140	В
Antimony	7440-36-0	mg/kg-dry	8/11/2015 1151h	8/15/2015 1354h	SW6020A	0.380	4.18	< 4.18	U
Arsenic	7440-38-2	mg/kg-dry	8/11/2015 1151h	8/15/2015 1354h	SW6020A	0.0847	2.61	2.13	J
Barium	7440-39-3	mg/kg-dry	8/11/2015 1151h	8/15/2015 1354h	SW6020A	2.83	4.71	232	
Beryllium	7440-41-7	mg/kg-dry	8/11/2015 1151h	8/15/2015 1354h	SW6020A	0.00622	2.09	0.321	J
Cadmium	7440-43-9	mg/kg-dry	8/11/2015 1151h	8/15/2015 1354h	SW6020A	0.0176	0.889	0.127	J
Calcium	7440-70-2	mg/kg-dry	8/11/2015 1151h	8/13/2015 1851h	SW6010C	3.10	131	7,250	В
Chromium	7440-47-3	mg/kg-dry	8/11/2015 1151h	8/15/2015 1354h	SW6020A	2.54	10.5	5.79	J
Cobalt	7440-48-4	mg/kg-dry	8/11/2015 1151h	8/15/2015 1354h	SW6020A	0.159	1.41	2.12	
Copper	7440-50-8	mg/kg-dry	8/11/2015 1151h	8/15/2015 1354h	SW6020A	1.61	16.2	3.73	J
Iron	7439-89-6	mg/kg-dry	8/11/2015 1151h	8/13/2015 1851h	SW6010C	1.49	6.54	6,340	В
Lead	7439-92-1	mg/kg-dry	8/11/2015 1151h	8/15/2015 1354h	SW6020A	3.13	6.80	4.28	J
Magnesium	7439-95-4	mg/kg-dry	8/11/2015 1151h	8/13/2015 1851h	SW6010C	13.7	131	1,740	В
Manganese	7439-96-5	mg/kg-dry	8/11/2015 1151h	8/15/2015 1354h	SW6020A	0.701	4.18	198	
Mercury	7439-97-6	mg/kg-dry	8/12/2015 1138h	8/13/2015 1306h	SW7471B	0.00154	0.0455	< 0.0455	U
Molybdenum	7439-98-7	mg/kg-dry	8/11/2015 1151h	8/15/2015 1354h	SW6020A	0.372	20.9	< 20.9	U
Nickel	7440-02-0	mg/kg-dry	8/11/2015 1151h	8/15/2015 1354h	SW6020A	2.28	20.9	2.85	J
Potassium	7440-09-7	mg/kg-dry	8/11/2015 1151h	8/13/2015 1851h	SW6010C	26.5	131	1,810	
Selenium	7782-49-2	mg/kg-dry	8/11/2015 1151h	8/15/2015 1354h	SW6020A	0.570	8.89	< 8.89	U
Silver	7440-22-4	mg/kg-dry	8/11/2015 1151h	8/15/2015 1354h	SW6020A	0.0234	1.57	0.0553	J
Sodium	7440-23-5	mg/kg-dry	8/11/2015 1151h	8/13/2015 1851h	SW6010C	10.1	131	157	B1
Thallium	7440-28-0	mg/kg-dry	8/11/2015 1151h	8/15/2015 1354h	SW6020A	0.00528	4.18	0.0959	J
Vanadium	7440-62-2	mg/kg-dry	8/11/2015 1151h	8/15/2015 1354h	SW6020A	0.539	10.5	15.2	
Zinc	7440-66-6	mg/kg-dry	8/11/2015 1151h	8/15/2015 1354h	SW6020A	5.28	52.3	18.9	J

B - The method blank was acceptable, as the method blank result is less than 10% of the lowest reported sample concentration.

B1 - This analyte was also detected in the method blank below the PQL.

J - Estimated value between the MDL and the reporting limit (PQL).

U - This flag indicates the compound was analyzed for but not detected above the MDL.



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Kyle F. Gross Laboratory Director

Jose Rocha QA Officer

INORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality Contact: Lenora Sullivan

Project: Gold King Mine - San Juan River Sampling

Lab Sample ID: 1508161-003

Client Sample ID: San Juan River @ Town of Montezuma

Collection Date: 8/8/2015 1454h **Received Date:** 8/10/2015 1302h

Analytical Results TOTAL METALS

Compound	CAS	Units	Date Prepared	Date Analyzed	Method Used	MDL	Reporting Limit	Analytical Result	Qual
Aluminum	7429-90-5	mg/kg-dry	8/11/2015 1151h	8/13/2015 1853h	SW6010C	2.20	12.8	6,140	В
Antimony	7440-36-0	mg/kg-dry	8/11/2015 1151h	8/15/2015 1357h	SW6020A	0.372	4.10	< 4.10	U
Arsenic	7440-38-2	mg/kg-dry	8/11/2015 1151h	8/15/2015 1357h	SW6020A	0.0829	2.56	1.74	J
Barium	7440-39-3	mg/kg-dry	8/11/2015 1151h	8/15/2015 1357h	SW6020A	2.77	4.61	279	
Beryllium	7440-41-7	mg/kg-dry	8/11/2015 1151h	8/15/2015 1357h	SW6020A	0.00609	2.05	0.291	J
Cadmium	7440-43-9	mg/kg-dry	8/11/2015 1151h	8/15/2015 1357h	SW6020A	0.0173	0.870	0.122	J
Calcium	7440-70-2	mg/kg-dry	8/11/2015 1151h	8/13/2015 1924h	SW6010C	30.3	1,280	8,470	В
Chromium	7440-47-3	mg/kg-dry	8/11/2015 1151h	8/15/2015 1357h	SW6020A	2.49	10.2	5.02	J
Cobalt	7440-48-4	mg/kg-dry	8/11/2015 1151h	8/15/2015 1357h	SW6020A	0.156	1.38	1.76	
Copper	7440-50-8	mg/kg-dry	8/11/2015 1151h	8/15/2015 1357h	SW6020A	1.57	15.9	3.43	J
Iron	7439-89-6	mg/kg-dry	8/11/2015 1151h	8/13/2015 1853h	SW6010C	1.46	6.40	5,530	В
Lead	7439-92-1	mg/kg-dry	8/11/2015 1151h	8/15/2015 1357h	SW6020A	3.07	6.66	3.90	J
Magnesium	7439-95-4	mg/kg-dry	8/11/2015 1151h	8/13/2015 1853h	SW6010C	13.4	128	1,900	В
Manganese	7439-96-5	mg/kg-dry	8/11/2015 1151h	8/15/2015 1357h	SW6020A	0.686	4.10	156	
Mercury	7439-97-6	mg/kg-dry	8/12/2015 1138h	8/13/2015 1307h	SW7471B	0.00148	0.0437	< 0.0437	U
Molybdenum	7439-98-7	mg/kg-dry	8/11/2015 1151h	8/15/2015 1357h	SW6020A	0.365	20.5	< 20.5	U
Nickel	7440-02-0	mg/kg-dry	8/11/2015 1151h	8/15/2015 1357h	SW6020A	2.24	20.5	2.80	J
Potassium	7440-09-7	mg/kg-dry	8/11/2015 1151h	8/13/2015 1853h	SW6010C	26.0	128	1,690	
Selenium	7782-49-2	mg/kg-dry	8/11/2015 1151h	8/15/2015 1357h	SW6020A	0.558	8.70	< 8.70	U
Silver	7440-22-4	mg/kg-dry	8/11/2015 1151h	8/15/2015 1357h	SW6020A	0.0229	1.54	< 1.54	U
Sodium	7440-23-5	mg/kg-dry	8/11/2015 1151h	8/13/2015 1853h	SW6010C	9.87	128	145	B1
Thallium	7440-28-0	mg/kg-dry	8/11/2015 1151h	8/15/2015 1357h	SW6020A	0.00517	4.10	0.0677	J
Vanadium	7440-62-2	mg/kg-dry	8/11/2015 1151h	8/15/2015 1357h	SW6020A	0.527	10.2	13.5	
Zinc	7440-66-6	mg/kg-dry	8/11/2015 1151h	8/15/2015 1357h	SW6020A	5.17	51.2	18.5	J

B - The method blank was acceptable, as the method blank result is less than 10% of the lowest reported sample concentration.

Reissue of a previously generated report. The collection time has been revised. Information herein supersedes that of the previously issued reports.

B1 - This analyte was also detected in the method blank below the PQL.

J - Estimated value between the MDL and the reporting limit (PQL).

U - This flag indicates the compound was analyzed for but not detected above the MDL.



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Kyle F. Gross Laboratory Director

Jose Rocha QA Officer

INORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality Contact: Lenora Sullivan

Project: Gold King Mine - San Juan River Sampling

Lab Sample ID: 1508161-004

Client Sample ID: San Juan R @ US160 Xing in CO (4954000)

Collection Date: 8/8/2015 1323h **Received Date:** 8/10/2015 1302h

Analytical Results TOTAL METALS

Compound	CAS	Units	Date Prepared	Date Analyzed	Method Used	MDL	Reporting Limit	Analytical Result	Qual
Aluminum	7429-90-5	mg/kg-dry	8/11/2015 1151h	8/13/2015 1926h	SW6010C	23.5	136	16,600	В
Antimony	7440-36-0	mg/kg-dry	8/11/2015 1151h	8/15/2015 1401h	SW6020A	0.397	4.37	< 4.37	U
Arsenic	7440-38-2	mg/kg-dry	8/11/2015 1151h	8/15/2015 1401h	SW6020A	0.0884	2.73	3.76	
Barium	7440-39-3	mg/kg-dry	8/11/2015 1151h	8/15/2015 1401h	SW6020A	2.95	4.91	200	
Beryllium	7440-41-7	mg/kg-dry	8/11/2015 1151h	8/15/2015 1401h	SW6020A	0.00649	2.18	0.675	J
Cadmium	7440-43-9	mg/kg-dry	8/11/2015 1151h	8/15/2015 1401h	SW6020A	0.0184	0.928	0.309	J
Calcium	7440-70-2	mg/kg-dry	8/11/2015 1151h	8/13/2015 1926h	SW6010C	32.3	1,360	21,900	В
Chromium	7440-47-3	mg/kg-dry	8/11/2015 1151h	8/15/2015 1401h	SW6020A	2.65	10.9	14.2	
Cobalt	7440-48-4	mg/kg-dry	8/11/2015 1151h	8/15/2015 1401h	SW6020A	0.166	1.47	4.12	
Copper	7440-50-8	mg/kg-dry	8/11/2015 1151h	8/15/2015 1401h	SW6020A	1.68	16.9	8.65	J
Iron	7439-89-6	mg/kg-dry	8/11/2015 1151h	8/13/2015 1926h	SW6010C	15.6	68.2	11,400	В
Lead	7439-92-1	mg/kg-dry	8/11/2015 1151h	8/15/2015 1401h	SW6020A	3.27	7.09	9.03	
Magnesium	7439-95-4	mg/kg-dry	8/11/2015 1151h	8/13/2015 1856h	SW6010C	14.3	136	7,060	В
Manganese	7439-96-5	mg/kg-dry	8/11/2015 1151h	8/15/2015 1401h	SW6020A	0.731	4.37	280	
Mercury	7439-97-6	mg/kg-dry	8/12/2015 1138h	8/13/2015 1309h	SW7471B	0.00154	0.0456	0.00182	J
Molybdenum	7439-98-7	mg/kg-dry	8/11/2015 1151h	8/15/2015 1401h	SW6020A	0.389	21.8	< 21.8	U
Nickel	7440-02-0	mg/kg-dry	8/11/2015 1151h	8/15/2015 1401h	SW6020A	2.39	21.8	8.11	J
Potassium	7440-09-7	mg/kg-dry	8/11/2015 1151h	8/13/2015 1856h	SW6010C	27.7	136	4,870	
Selenium	7782-49-2	mg/kg-dry	8/11/2015 1151h	8/15/2015 1401h	SW6020A	0.595	9.28	< 9.28	U
Silver	7440-22-4	mg/kg-dry	8/11/2015 1151h	8/15/2015 1401h	SW6020A	0.0245	1.64	0.0443	J
Sodium	7440-23-5	mg/kg-dry	8/11/2015 1151h	8/13/2015 1856h	SW6010C	10.5	136	722	B1
Thallium	7440-28-0	mg/kg-dry	8/11/2015 1151h	8/15/2015 1401h	SW6020A	0.00551	4.37	0.181	J
Vanadium	7440-62-2	mg/kg-dry	8/11/2015 1151h	8/15/2015 1401h	SW6020A	0.562	10.9	29.4	
Zinc	7440-66-6	mg/kg-dry	8/11/2015 1151h	8/15/2015 1401h	SW6020A	5.51	54.6	40.1	J

B - The method blank was acceptable, as the method blank result is less than 10% of the lowest reported sample concentration.

B1 - This analyte was also detected in the method blank below the PQL.

J - Estimated value between the MDL and the reporting limit (PQL).

U - This flag indicates the compound was analyzed for but not detected above the MDL.



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Kyle F. Gross Laboratory Director

Jose Rocha QA Officer

INORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality Contact: Lenora Sullivan

Project: Gold King Mine - San Juan River Sampling

Lab Sample ID: 1508161-001

Client Sample ID: San Juan R @ Mexican Hat US163 Xing (4953000)

Collection Date: 8/8/2015 1454h **Received Date:** 8/10/2015 1302h

Analytical Results

Compound	CAS	Units	Date Prepared	Date Analyzed	Method Used	MDL	Reporting Limit	Analytical Result	Qual
Hardness (as CaCO3)		mg/L		8/14/2015 721h	SM2340B	10.0	10.0	26,500	

Report Date: 8/17/2015 Page 6 of 17



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Jose Rocha QA Officer

INORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality Contact: Lenora Sullivan

Project: Gold King Mine - San Juan River Sampling

Lab Sample ID: 1508161-002

Client Sample ID: San Juan R @ Sand Island (4953250)

Collection Date: 8/8/2015 1619h **Received Date:** 8/10/2015 1302h

Analytical Results

Compound	CAS	Units	Date Prepared	Date Analyzed	Method Used	MDL	Reporting Limit	Analytical Result	Qual
Hardness (as CaCO3)		mg/L		8/14/2015 721h	SM2340B	10.0	10.0	25,300	

Report Date: 8/17/2015 Page 7 of 17



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INORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality Contact: Lenora Sullivan

Project: Gold King Mine - San Juan River Sampling

Lab Sample ID: 1508161-003

Client Sample ID: San Juan River @ Town of Montezuma

Collection Date: 8/8/2015 1454h **Received Date:** 8/10/2015 1302h

Analytical Results

Compound	CAS	Units	Date Prepared	Date Analyzed	Method Used	MDL	Reporting Limit	Analytical Result	Qual
Hardness (as CaCO3)		mg/L		8/14/2015 721h	SM2340B	10.0	10.0	29,000	

Reissue of a previously generated report. The collection time has been revised. Information herein supersedes that of the previously issued reports.



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Jose Rocha QA Officer

INORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality Contact: Lenora Sullivan

Project: Gold King Mine - San Juan River Sampling

Lab Sample ID: 1508161-004

Client Sample ID: San Juan R @ US160 Xing in CO (4954000)

Collection Date: 8/8/2015 1323h **Received Date:** 8/10/2015 1302h

Analytical Results

Compound	CAS	Units	Date Prepared	Date Analyzed	Method Used	MDL	Reporting Limit	Analytical Result	Qual
Hardness (as CaCO3)		mg/L		8/14/2015 721h	SM2340B	10.0	10.0	83,800	

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Kyle F. Gross Laboratory Director

Jose Rocha QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality

Contact: Lenora Sullivan

Lab Set ID: 1508161

Dept: ME **QC Type:** LCS

Project: Gold King Mine - San Juan River Sampling

Analyte		Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID:	LCS-38475	Date Analyzed:	08/13/20	15 1827h										
Test Code:	6010C-S	Date Prepared:	08/11/20	15 1151h										
Aluminum		96.2	mg/kg	SW6010C	1.72	10.0	100.0	0	96.2	80 - 120				
Calcium		1,000	mg/kg	SW6010C	2.37	100	1,000	0	100	80 - 120				
Iron		95.2	mg/kg	SW6010C	1.14	5.00	100.0	0	95.2	80 - 120				
Magnesium		953	mg/kg	SW6010C	10.5	100	1,000	0	95.3	80 - 120				
Potassium		936	mg/kg	SW6010C	20.3	100	1,000	0	93.6	80 - 120				
Sodium		928	mg/kg	SW6010C	7.71	100	1,000	0	92.8	80 - 120				
Lab Sample ID:	LCS-38475	Date Analyzed:	08/15/20	15 1334h										
Test Code:	6020-S	Date Prepared:	08/11/20	15 1151h										
Antimony		19.0	mg/kg	SW6020A	0.291	3.20	20.00	0	95.0	85 - 115				
Arsenic		20.0	mg/kg	SW6020A	0.0648	2.00	20.00	0	99.8	85 - 115				
Barium		18.6	mg/kg	SW6020A	2.16	3.60	20.00	0	93.1	85 - 115				
Beryllium		20.8	mg/kg	SW6020A	0.00476	1.60	20.00	0	104	85 - 115				
Cadmium		18.8	mg/kg	SW6020A	0.0135	0.680	20.00	0	94.1	85 - 115				
Chromium		19.0	mg/kg	SW6020A	1.94	8.00	20.00	0	95.2	85 - 115				
Cobalt		18.6	mg/kg	SW6020A	0.122	1.08	20.00	0	92.8	85 - 115				
Copper		19.8	mg/kg	SW6020A	1.23	12.4	20.00	0	98.8	85 - 115				
Lead		19.0	mg/kg	SW6020A	2.40	5.20	20.00	0	95.1	85 - 115				
Manganese		19.6	mg/kg	SW6020A	0.536	3.20	20.00	0	97.9	85 - 115				
Molybdenum		18.9	mg/kg	SW6020A	0.285	16.0	20.00	0	94.3	85 - 115				
Nickel		18.8	mg/kg	SW6020A	1.75	16.0	20.00	0	93.8	85 - 115				
Selenium		19.4	mg/kg	SW6020A	0.436	6.80	20.00	0	97.2	85 - 115				
Silver		18.0	mg/kg	SW6020A	0.0179	1.20	20.00	0	90.2	85 - 115				
Thallium		18.8	mg/kg	SW6020A	0.00404	3.20	20.00	0	94.0	85 - 115				
Vanadium		19.0	mg/kg	SW6020A	0.412	8.00	20.00	0	95.0	85 - 115				
Zinc		98.1	mg/kg	SW6020A	4.04	40.0	100.0	0	98.1	85 - 115				



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Kyle F. Gross Laboratory Director

Jose Rocha **QA** Officer

QC SUMMARY REPORT

Utah Division of Water Quality **Client:**

Project: Gold King Mine - San Juan River Sampling

Lab Set ID: 1508161

Lenora Sullivan **Contact:**

Dept: ME

QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS-38499	Date Analyzed:	08/13/201	5 1216h										
Test Code: HG-S-7471B	Date Prepared:	08/12/201	5 1138h										
Mercury	0.440	mg/kg	SW7471B	0.00135	0.0400	0.4000	0	110	80 - 120				

Report Date: 8/17/2015 Page 11 of 17

A

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Kyle F. Gross Laboratory Director

Jose Rocha QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality

Lenora Sullivan

Lab Set ID: 1508161

Dept: ME **QC Type:** MBLK

Contact:

Project: Gold King Mine - San Juan River Sampling

Analyte		Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID:	MB-38475	Date Analyzed:	08/13/20	15 1825h										
Test Code:	6010C-S	Date Prepared:	08/11/20	15 1151h										
Aluminum		7.17	mg/kg	SW6010C	1.72	10.0								JB
Calcium		70.3	mg/kg	SW6010C	2.37	100								JB
Iron		1.83	mg/kg	SW6010C	1.14	5.00								JB
Magnesium		12.2	mg/kg	SW6010C	10.5	100								JB
Potassium		< 100	mg/kg	SW6010C	20.3	100								U
Sodium		22.0	mg/kg	SW6010C	7.71	100								JB1
Lab Sample ID:	MB-38475	Date Analyzed:	08/15/20	15 1331h										
Test Code:	6020-S	Date Prepared:	08/11/20	15 1151h										
Antimony		< 3.20	mg/kg	SW6020A	0.291	3.20								U
Arsenic		< 2.00	mg/kg	SW6020A	0.0648	2.00								U
Barium		< 3.60	mg/kg	SW6020A	2.16	3.60								U
Beryllium		< 1.60	mg/kg	SW6020A	0.00476	1.60								U
Cadmium		< 0.680	mg/kg	SW6020A	0.0135	0.680								U
Chromium		< 8.00	mg/kg	SW6020A	1.94	8.00								U
Cobalt		< 1.08	mg/kg	SW6020A	0.122	1.08								U
Copper		< 12.4	mg/kg	SW6020A	1.23	12.4								U
Lead		< 5.20	mg/kg	SW6020A	2.40	5.20								U
Manganese		< 3.20	mg/kg	SW6020A	0.536	3.20								U
Molybdenum		< 16.0	mg/kg	SW6020A	0.285	16.0								U
Nickel		< 16.0	mg/kg	SW6020A	1.75	16.0								U
Selenium		< 6.80	mg/kg	SW6020A	0.436	6.80								U
Silver		< 1.20	mg/kg	SW6020A	0.0179	1.20								U
Thallium		< 3.20	mg/kg	SW6020A	0.00404	3.20								U
Vanadium		< 8.00	mg/kg	SW6020A	0.412	8.00								U
Zinc		< 40.0	mg/kg	SW6020A	4.04	40.0								U



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Kyle F. Gross
Laboratory Director

Jose Rocha QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality

Lab Set ID: 1508161

Project: Gold King Mine - San Juan River Sampling

Contact: Lenora Sullivan

Dept: ME

QC Type: MBLK

Analyte		Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID:	MB-38499	Date Analyzed:	08/13/201	15 1212h										
Test Code:	HG-S-7471B	Date Prepared:	08/12/201	5 1138h										
Mercury	·	< 0.0400	mg/kg	SW7471B	0.00135	0.0400	<u> </u>							U

B - The method blank was acceptable, as the method blank result is less than 10% of the lowest reported sample concentration.

Report Date: 8/17/2015 Page 13 of 17

B1 - This analyte was also detected in the method blank below the PQL.

J - Estimated value between the MDL and the reporting limit (PQL).

U - This flag indicates the compound was analyzed for but not detected above the MDL.

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Kyle F. Gross Laboratory Director

Jose Rocha **QA** Officer

QC SUMMARY REPORT

Utah Division of Water Quality **Client:**

Lab Set ID: 1508161

Project: Gold King Mine - San Juan River Sampling

Lenora Sullivan **Contact:**

Dept: ME QC Type: MS

Analyte		Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID:	1508161-001AMS	Date Analyz	ed: 08/13/201	5 1847h										
Test Code:	6010C-S	Date Prepare	ed: 08/11/201	5 1151h										
Iron		7,760	mg/kg-dry	SW6010C	1.50	6.58	131.5	7630	94.3	75 - 125				
Magnesium		3,490	mg/kg-dry	SW6010C	13.8	132	1,315	2190	99.1	75 - 125				
Potassium		3,610	mg/kg-dry	SW6010C	26.7	132	1,315	2280	101	75 - 125				
Sodium		1,470	mg/kg-dry	SW6010C	10.1	132	1,315	291	89.9	75 - 125				
Lab Sample ID:	1508161-001AMS	Date Analyz	ed: 08/13/201	5 1919h										
Test Code:	6010C-S	Date Prepare	ed: 08/11/201	5 1151h										
Aluminum		9,600	mg/kg-dry	SW6010C	22.6	132	131.5	8780	622	75 - 125				2
Calcium		8,450	mg/kg-dry	SW6010C	31.2	1,320	1,315	6980	112	75 - 125				
Lab Sample ID:	1508161-001AMS	Date Analyz	ed: 08/15/201	5 1348h										•
Test Code:	6020-S	Date Prepare	ed: 08/11/201	5 1151h										
Antimony		23.8	mg/kg-dry	SW6020A	0.382	4.21	26.30	0	90.5	75 - 125				
Arsenic		27.5	mg/kg-dry	SW6020A	0.0852	2.63	26.30	2.7	94.4	75 - 125				
Barium		310	mg/kg-dry	SW6020A	2.85	4.73	26.30	271	146	75 - 125				2
Beryllium		27.1	mg/kg-dry	SW6020A	0.00626	2.10	26.30	0.423	102	75 - 125				
Cadmium		24.4	mg/kg-dry	SW6020A	0.0177	0.894	26.30	0.165	92.1	75 - 125				
Chromium		32.1	mg/kg-dry	SW6020A	2.56	10.5	26.30	7.72	92.5	75 - 125				
Cobalt		26.4	mg/kg-dry	SW6020A	0.160	1.42	26.30	2.65	90.2	75 - 125				
Copper		29.7	mg/kg-dry	SW6020A	1.61	16.3	26.30	5.01	93.7	75 - 125				
Lead		32.3	mg/kg-dry	SW6020A	3.15	6.84	26.30	5.52	102	75 - 125				
Manganese		248	mg/kg-dry	SW6020A	0.705	4.21	26.30	218	117	75 - 125				
Molybdenum		24.5	mg/kg-dry	SW6020A	0.375	21.0	26.30	0.43	91.5	75 - 125				
Nickel		28.2	mg/kg-dry	SW6020A	2.30	21.0	26.30	4.09	91.7	75 - 125				
Selenium		25.2	mg/kg-dry	SW6020A	0.573	8.94	26.30	0	95.9	75 - 125				
Silver		23.1	mg/kg-dry	SW6020A	0.0236	1.58	26.30	0.0679	87.6	75 - 125				
Thallium		24.1	mg/kg-dry	SW6020A	0.00531	4.21	26.30	0.13	91.3	75 - 125				
Vanadium		43.9	mg/kg-dry	SW6020A	0.542	10.5	26.30	18.9	95.2	75 - 125				
Zinc		160	mg/kg-dry	SW6020A	5.31	52.6	131.5	26.1	102	75 - 125				

Report Date: 8/17/2015 Page 14 of 17



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Kyle F. Gross **Laboratory Director**

Jose Rocha **QA** Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality **Contact:**

Lenora Sullivan

ME

Lab Set ID: 1508161

Project:

Dept:

Gold King Mine - San Juan River Sampling

QC Type: MS

Analyte		Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 1508	08161-001AMS	Date Analyzed	1: 08/13/201	5 1302h										
Test Code: HG-	S-S-7471B	Date Prepared	: 08/12/201:	5 1138h										
Mercury		0.497	mg/kg-dry	SW7471B	0.00155	0.0460	0.4597	0	108	80 - 120				

² - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.

Report Date: 8/17/2015 Page 15 of 17

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Kyle F. Gross Laboratory Director

Jose Rocha QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality

Lab Set ID: 1508161

Project: Gold King Mine - San Juan River Sampling

Contact: Lenora Sullivan

Dept: ME **QC Type:** MSD

Analyte		Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID:	1508161-001AMSD	Date Analyz	ed: 08/13/201	5 1849h										
Test Code:	6010C-S	Date Prepare	ed: 08/11/201	5 1151h										
Iron		6,790	mg/kg-dry	SW6010C	1.45	6.36	127.3	7630	-666	75 - 125	7760	13.4	20	2
Magnesium		3,190	mg/kg-dry	SW6010C	13.4	127	1,273	2190	78.8	75 - 125	3490	8.99	20	
Potassium		3,410	mg/kg-dry	SW6010C	25.8	127	1,273	2280	88.5	75 - 125	3610	5.61	20	
Sodium		1,410	mg/kg-dry	SW6010C	9.81	127	1,273	291	87.5	75 - 125	1470	4.77	20	
Lab Sample ID:	1508161-001AMSD	Date Analyz	ed: 08/13/201	5 1922h										
Test Code:	6010C-S	Date Prepare	ed: 08/11/201	5 1151h										
Aluminum		9,030	mg/kg-dry	SW6010C	21.9	127	127.3	8780	191	75 - 125	9600	6.17	20	2
Calcium		7,460	mg/kg-dry	SW6010C	30.2	1,270	1,273	6980	37.4	75 - 125	8450	12.5	20	2
Lab Sample ID:	1508161-001AMSD	Date Analyz	ed: 08/15/201	5 1351h										
Test Code:	6020-S	Date Prepare	ed: 08/11/201	5 1151h										
Antimony		21.1	mg/kg-dry	SW6020A	0.370	4.07	25.46	0	82.9	75 - 125	23.8	12.0	20	
Arsenic		26.4	mg/kg-dry	SW6020A	0.0825	2.55	25.46	2.7	93.0	75 - 125	27.5	4.29	20	
Barium		226	mg/kg-dry	SW6020A	2.75	4.58	25.46	271	-176	75 - 125	310	31.1	20	2
Beryllium		25.9	mg/kg-dry	SW6020A	0.00606	2.04	25.46	0.423	100	75 - 125	27.1	4.80	20	
Cadmium		23.1	mg/kg-dry	SW6020A	0.0172	0.866	25.46	0.165	90.2	75 - 125	24.4	5.32	20	
Chromium		30.1	mg/kg-dry	SW6020A	2.47	10.2	25.46	7.72	87.8	75 - 125	32.1	6.39	20	
Cobalt		25.2	mg/kg-dry	SW6020A	0.155	1.37	25.46	2.65	88.7	75 - 125	26.4	4.51	20	
Copper		27.8	mg/kg-dry	SW6020A	1.56	15.8	25.46	5.01	89.5	75 - 125	29.7	6.46	20	
Lead		28.1	mg/kg-dry	SW6020A	3.05	6.62	25.46	5.52	88.8	75 - 125	32.3	13.8	20	
Manganese		220	mg/kg-dry	SW6020A	0.682	4.07	25.46	218	9.36	75 - 125	248	12.1	20	2
Molybdenum		22.9	mg/kg-dry	SW6020A	0.362	20.4	25.46	0.43	88.4	75 - 125	24.5	6.62	20	
Nickel		26.5	mg/kg-dry	SW6020A	2.22	20.4	25.46	4.09	88.2	75 - 125	28.2	6.04	20	
Selenium		24.2	mg/kg-dry	SW6020A	0.555	8.66	25.46	0	95.0	75 - 125	25.2	4.21	20	
Silver		22.0	mg/kg-dry	SW6020A	0.0228	1.53	25.46	0.0679	86.3	75 - 125	23.1	4.75	20	
Thallium		23.0	mg/kg-dry	SW6020A	0.00514	4.07	25.46	0.13	89.9	75 - 125	24.1	4.72	20	
Vanadium		39.6	mg/kg-dry	SW6020A	0.524	10.2	25.46	18.9	81.1	75 - 125	43.9	10.5	20	
Zinc		141	mg/kg-dry	SW6020A	5.14	50.9	127.3	26.1	90.4	75 - 125	160	12.5	20	

Report Date: 8/17/2015 Page 16 of 17



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Kyle F. Gross Laboratory Director

Jose Rocha QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality

Contact:

Lenora Sullivan

Lab Set ID: 1508161

Dept: ME

Project: Gold Ki

Gold King Mine - San Juan River Sampling

QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 1508161-001AMSD	Date Analyze	ed: 08/13/201	5 1304h										
Test Code: HG-S-7471B	Date Prepare	d: 08/12/201	5 1138h										
Mercury	0.498	mg/kg-dry	SW7471B	0.00155	0.0460	0.4597	0	108	80 - 120	0.497	0.0462	20	

² - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.

Report Date: 8/17/2015 Page 17 of 17

American West Analytical Laboratories 5 Day Rush

REVISED: 8/21/2015

Corrections made to collection times on sample #'s 1 and 3 -RW

WORK O	RDER Summary				We	ork Order: 15	508161	Page 1 of 2
Client:	Utah Division of Water Quality					Due Date: 8/1		
Client ID:	UTD200		Contact:	Lenora Sullivan				
Project:	Gold King Mine - San Juan River San	npling	QC Leve	l: II+ MDL	٦	WO Type: Sta	ndard	
Comments:	5 Day Rush / QC2+ / Flag any concentr Trisha Johnson;	ations detected less	than RL and at or	greater than the MDL				rris and
Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1508161-001A	San Juan R @ Mexican Hat US163 Xing (4953000)	8/8/2015 1740h	8/10/2015 1302h	3051A-ICPMS-PR	Solid		DF-Metals	I
				6010C-S		✓	DF-Metals	
		191000		6 SEL Analytes: AL CA	A FE MG K NA			100
				6020-S		✓	DF-Metals	
				17 SEL Analytes: SB A AG TL V ZN	S BA BE CD CR CO CU F	'B MN MO NI SE		
				HARD-2340B			DF-Metals	
			· · · · · · · · · · · · · · · · · · ·	HG-S-7471B	•		DF-Metals	
				HG-S-PR-B			DF-Metals	
				PMOIST	,		DF-Metals	
1508161-002A	San Juan R @ Sand Island (4953250)	8/8/2015 1619h	8/10/2015 1302h	3051A-ICPMS-PR	Solid		DF-Metals	1
				6010C-S		✓	DF-Metals	
				6 SEL Analytes: AL CA	A FE MG K NA			
				6020-S		✓	DF-Metals	
				17 SEL Analytes: SB A AG TL V ZN	IS BA BE CD CR CO CU I	°B MN MO NI SE		
				HARD-2340B			DF-Metals	
				HG-S-7471B			DF-Metals	
			W.A.	HG-S-PR-B			DF-Metals	
				PMOIST			DF-Metals	
1508161-003A	San Juan River @ Town of Montezuma	8/8/2015 1454h	8/10/2015 1302h	3051A-ICPMS-PR	Solid		DF-Metals	
				6010C-S		✓	DF-Metals	
				6 SEL Analytes: AL CA	4 FE MG K NA			
				6020-S		✓	DF-Metals	
				17 SEL Analytes: SB A AG TL V ZN	IS BA BE CD CR CO CU I	°B MN MO NI SE		
				HARD-2340B			DF-Metals	
				HG-S-7471B			DF-Metals	
Printed: 8/21/2015	FOR LABORATORY USE ONLY [fill out on page 1]	: %M	CN TAT	QC [] HOK	HOK	HOK	COC Emailed	

WORK O	RDER Summary				,	Work Order: 1508161	Page 2 of 2
Client:	Utah Division of Water Quality					Due Date: 8/17/2015	J
Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel Storage	
1508161-003A	San Juan River @ Town of Montezuma	8/8/2015 1454h	8/10/2015 1302h	HG-S-PR-B	Solid	DF-Metals	1
				PMOIST		DF-Metals	
1508161-004A	San Juan R @ US160 Xing in CO (4954000)	8/8/2015 1323h	8/10/2015 1302h	3051A-ICPMS-PR	Solid	DF-Metals	1
			-	6010C-S		✓ DF-Metals	
				6 SEL Analytes: AL CA	FE MG K NA		
			1	6020-S		✓ DF-Metals	
				17 SEL Analytes: SB A AG TL V ZN	S BA BE CD CR CO C	U PB MN MO NI SE	
				HARD-2340B		DF-Metals	***************************************
		774		HG-S-7471B	71112	DF-Metals	***
				HG-S-PR-B		DF-Metals	
				PMOIST		DF-Metals	

Printed: 8/21/2015

HOK_ _ _ _

HOK_ _ _ _

American West Analytical Laborato	ries Cha	in of Custody	<i>y</i>					Lab Sample Set #	1508-161
Address:	Utah Divisio PO Box 1448 Salt Lake Ci	370 ty, UT 841:	14-487	70	P	Phone: 801-5 Fax: 801-5	ra Sullivan 536-4367 536-4301	5 BA	Page 1 of 1 QC Level: 2+
Project Name: PO#:	Gold King M	ine - San J	uan R	iver Samp	ling l		as@utah.g sharris@ut	<u>ov</u> ah.gov (please copy	on results)
Sample ID: SAN JUAN R AT MEXICAN HAT US163 XING (4953000) 17:4 SAN JUAN R AT SAND ISLAND (4953250) San Juan River at Town of Montezuma 14:5 SAN JUAN R AT US160 XING IN CO (4954000)	0/18/15	/2015 per e	mail		Total TAL Metals + Mo + Hardness (200.7: Al. Ca, Fc, K. Mg. Nu. 200.8: Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Mn, Mo, N, Ag, Sc, Tl, V, Zn, 245.1: Hg)	Direct CAL Metal: + Mg Hardness (2007: Al, Ca. Fe, Mg Ter 2008: Sb. As, Ba, Be, Cd, Cr. 20 Cu. Pb, Mn, Mo, N. Ar, Se, Th. 245.1: Hg		Comments Dissolved Metals samples have been field filtered. Samples collected from river monitoring following a mine waste dump release. Please flag any concentrations detected less than RL and at or greater than the MDL with a J qualifier. Please include EDD.	Samples Were: 1 Shipped hand selected 2 Ambient of Childs 3 Temperature 4 Received Broken/Leaking (Improperly Sealed) Y N 5 Properly Preserved Y N 6 Received Within Holding Times Y N COC Tape Was: 1 Present on Outer Package Y N NA 2 Unbroken on Outer Package Y N NA 3 Present on Sample Y N NA 4 Unbroken on Sample Y N NA Discrepancies Between Sample Labels and COC Record? Y N
Provi Name DAMES HARRIS			Da Te	1302	Print Na		Ura-	the second	Date 8/60/15

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